United States Patent [19] Myer				
[54]	HEATING	ELEMENT		
[75]	Inventor:	Jon H. Myer, Woodland Hills, Calif.		
[73]	Assignee:	Hughes Aircraft Co., Los Angeles, Calif.		
[21]	Appl. No.:	627,146		
[22]	Filed:	Jul. 2, 1984		
[51]	Int. Cl.4	F24H 3/00; H 05B 1/00;		
[52]	U.S. Cl	H01C 3/10 219/354; 219/552; 65/12; 338/280; 338/283		

[58] Field of Search 219/354, 353, 357, 549,

219/535, 366, 388 S, 388, 552; 65/12, 18.1, 18.2,

144, 271, 292; 338/283, 284, 279, 280, 281, 214

[56] References Cited
U.S. PATENT DOCUMENTS

2,641,682	6/1953	McKenna	219/10.79	
2,688,067	8/1954	Sonnino et al	219/388 S	
3,449,549	6/1969	Isabe et al	219/388 S	

[11] Patent Number:

4,584,464

[45] Date of Patent:

Apr. 22, 1986

[57] ABSTRACT

An electrically energizable high intensity, radiant energy heater (8) having a general M-shape for providing a pocket (20) for localized high intensity isothermal heating for fusion and fiber processing. The heater is shaped to provide easy access for a fiber (18) at an entry (16) to enable insertion of the fiber into the isothermal high temperature zone in pocket (20). A second reentrant wall external to the pocket provides radiant shielding and buffers the isothermal heating zone from the cool environment. The heater may be constructed from a ribbon of a resistively heated metal, such as platinum foil.

33 Claims, 2 Drawing Figures

